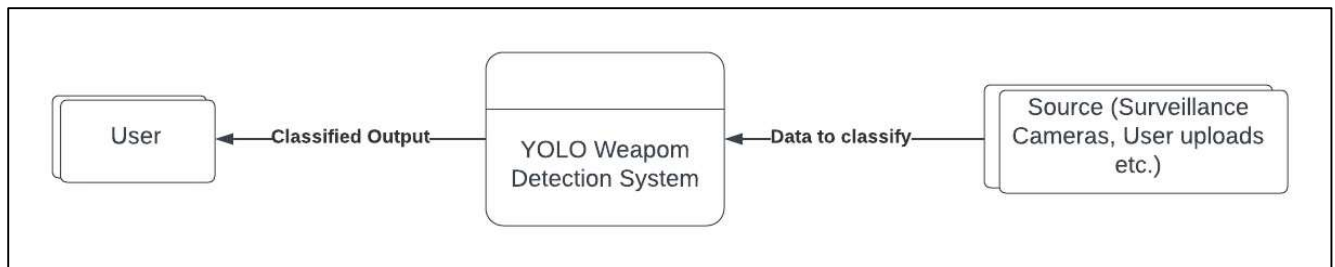


Project Design Phase-II
Data Flow Diagram & User Stories

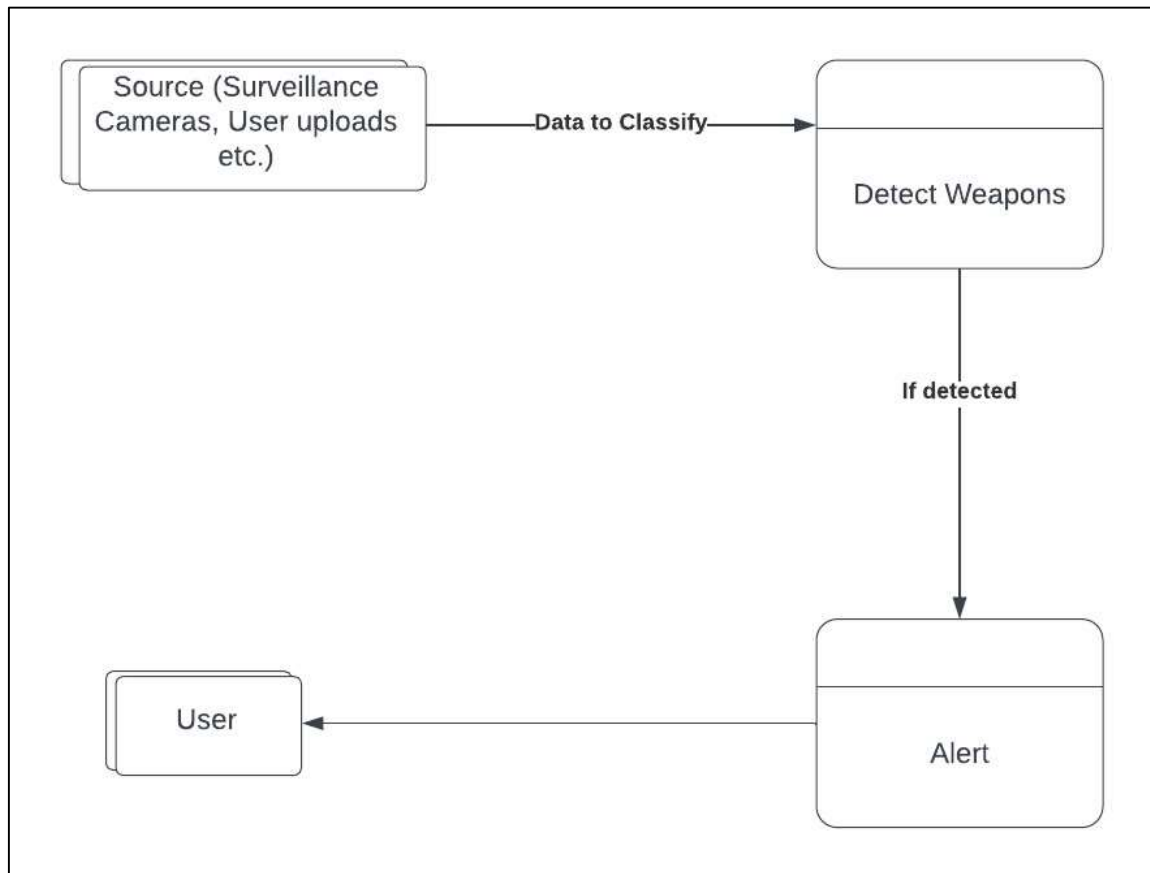
Date	19 October 2023
Team ID	PNT2023TMID593074
Project Name	Arming Against Violence - YOLO-Based Weapon Detection
Maximum Marks	4 Marks

Data Flow Diagrams

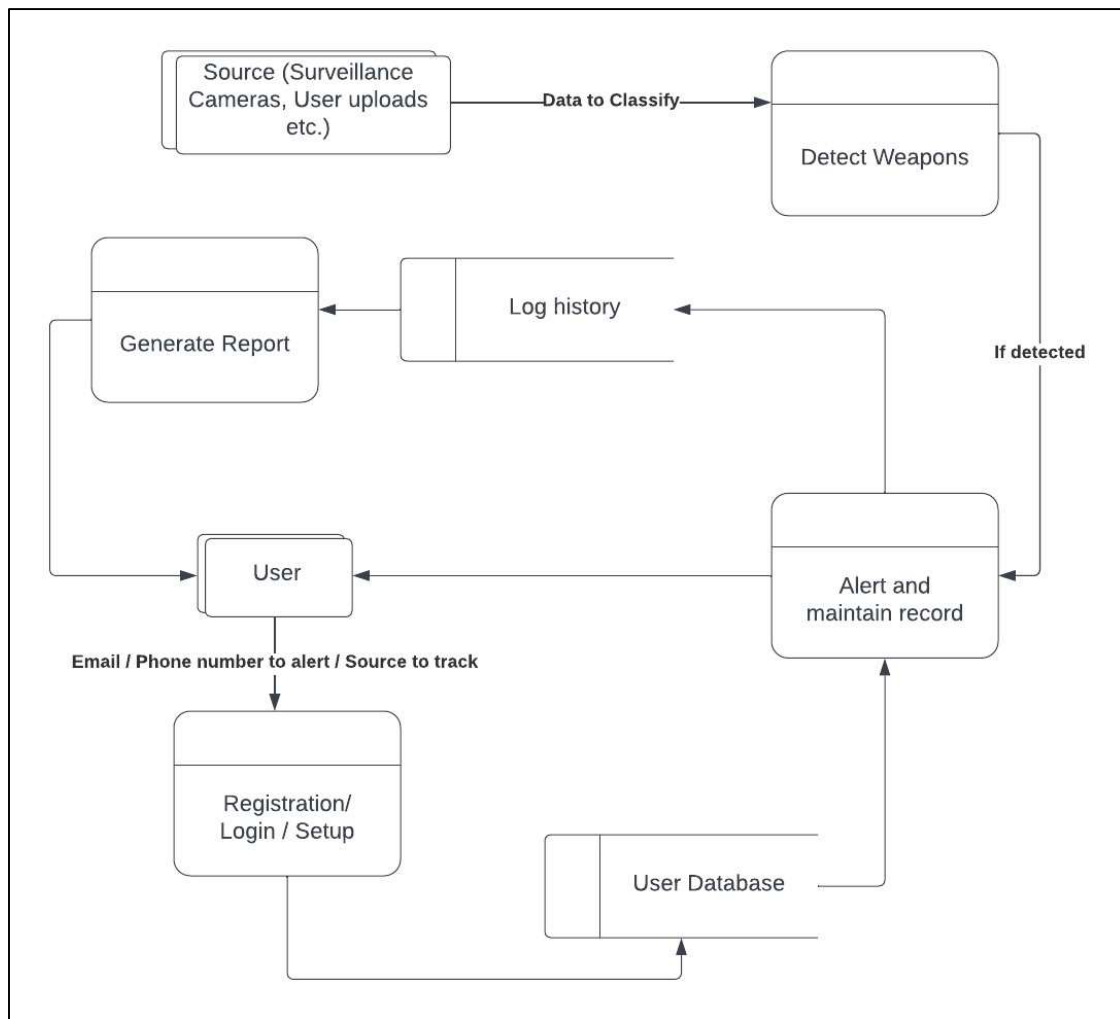
DFD Level 0



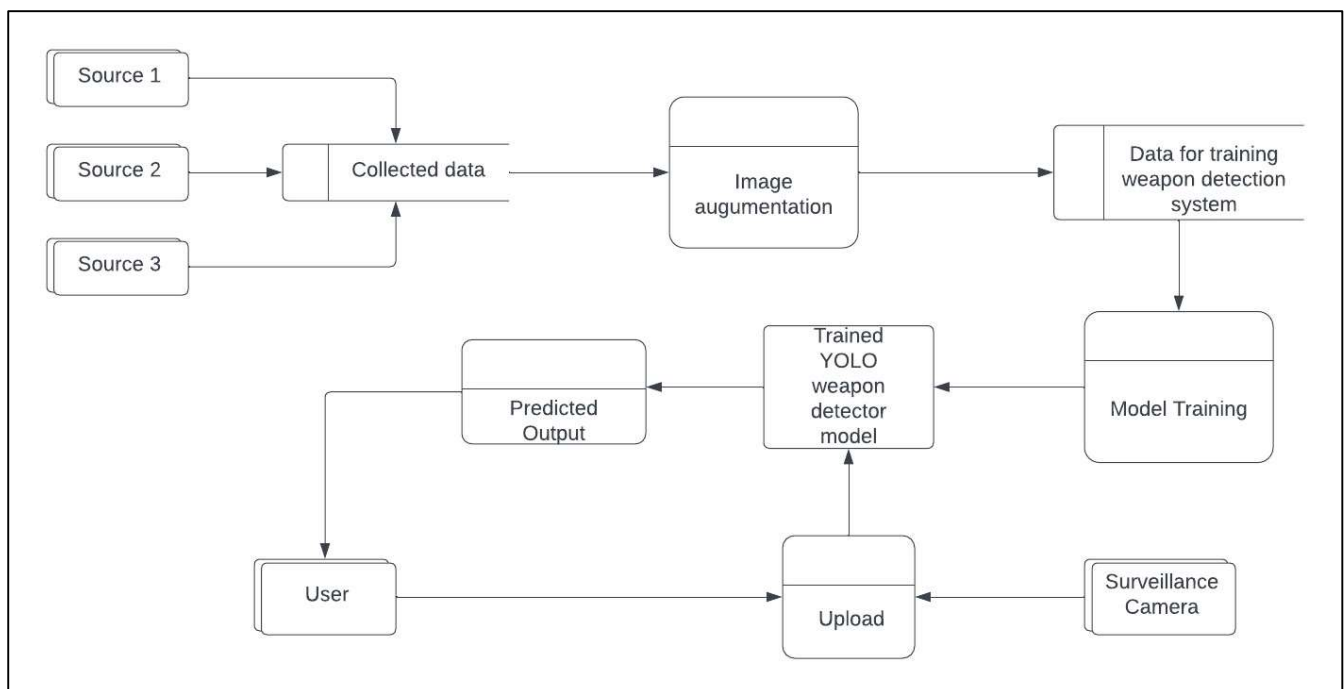
DFD Level 1



DFD Level 2



Overall Process:



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
User (Web user)	Registration	USN – 1	As a user, I can register for the application by entering my email or phone number for alerts, password, and confirming my password.	After completion the user is able to access the application.	High	Sprint 1
User (Web user)	Upload	USN – 2	As a user, I want the capability to upload images for detection.	After completion the user is able to upload images for detection.	High	Sprint 1
User (Web User)	Viewing Detection Results	USN - 3	As a user, I want to view the results of weapon detection performed on uploaded images, including details about detected objects.	Users should have access to view the results of weapon detection for their uploaded images.	High	Sprint 1
User (Web user)	Setup live surveillance	USN – 4	As a user, I want the capability to set up live input from a surveillance camera for real-time monitoring and weapon detection.	After completion the user is able to use live video input for detection.	High	Sprint 2
User	Detect Weapons Accurately	USN – 5	As a user, I expect the YOLO weapon detection system to accurately identify potential weapons, ensuring the safety and security of the premises.	The system should consistently achieve a high accuracy rate in identifying potential weapons.	High	Sprint 1
Security personnel	Alerts	USN – 6	As a security personnel, I expect the YOLO weapon detection system to quickly notify me when potential threats are detected.	Alerts should be sent to security personnel within seconds of detecting a potential threat.	High	Sprint 2
User (Web User)	User Support and Help	USN – 7	As a user, I want access to user support and help resources to get assistance with using the application.	Users have access to FAQs and contact information for customer support.	Medium	Sprint 3

User (Web User)	Feedback and Reporting	USN – 8	As a user, I want the ability to provide feedback and report issues or false positives related to the weapon detection system.	Users are able provide feedback, report concerns, false positives, and suggestions.	Medium	Sprint 3
Security personnel	View alert history	USN – 9	As a security personnel, I want the capability to view the history of alerts and notifications generated by the system.	Security personnel have access to alert history.	Medium	Sprint 3
User (Web User)	Account Recovery	USN – 10	As a user, I want a secure and straightforward account recovery process to regain access to my account in case I forget my password.	User can recover their passwords	Medium	Sprint 3